

KOCHETKOV, N.K.; KUDRYASHOV, L.I.; SENCHENKOVA, T.M.

Interaction of a triphenyl phosphite-bromine complex with ethylene glycol and its derivatives. Zhur.ob.khim. 31 no.6:1830-1832 Je '61. (MIRA 14:6)

1. Institut khimii prirodnikh soedineniy AN SSSR.
(Phosphorous acid) (Bromine compounds) (Ethylene glycol)

KOCHETKOV, N.K.; KUDRYASHOV, L.I.; SENCHENKOVA, T.M.

Effect of γ -radiation on glucosamine. Dokl. AN SSSR 154
no. 3:642-645 Ja '64. (MIRA 17:5)

1. Institut khimii prirodnnykh soyedineniy AN SSSR. 2. Chlen-
korrespondent AN SSSR (for Kochetkov).

50(1)

SOV/25-59-7-37/55

AUTHOR: Senchenkova, Ye.M.

TITLE: The Founder of the Theory of the Respiration of Plants
(On the Occasion of the 100th Anniversary since the
Birth of Academician V.I. Palladin)

PERIODICAL: Nauka i zhizn', 1959, Nr 7, pp 70-71 (USSR)

ABSTRACT: This is a commemorative notice on Academician V.I.
Palladin (1859-1922) - founder of the theory of the
respiration of plants. There is 1 illustration.

Card 1/1

SENCHENKOVA, Ye.M.

K.A.Timiriachev's first works on photosynthesis; unpublished
material from the K.A.Timiriachev Museum-Residence. Vop.ist.est.i
tekh. no.10:124-129 '60. (MIRA 14:3)
(Photosynthesis)
(Timiriachev, Kliment Arkad'evich, 1843-1920)

SENCHENKOVA, Ye.M.

Outstanding Russian biochemist and plant physiologist; on the
100th anniversary of the birth of V.I. Palladin. Vop.ist.est.i
tekh. no.9:134-138 '60. (MIRA 13:7)
(PALLADIN, VIADIMIR IVANOVICH, 1859-1922)

SENCHENKOVA, Ye.M.

Andrei Sergeevich Famintsyn; on the 40th anniversary of his death.
Bot.zhur. 45 no.2:309-317 F '60. (MIRA 13:6)
(Famintsyn, Andrei Sergeevich, 1835-1918)

SENCHENKOVA, Ye.M.

From the history of studies on the origin of oxygen evolved during
photosynthesis. Fiziol. rast. 7 no.4:470-475 '60. (MIRA 13:9)

1. Institute of Plant Physiology, U.S.S.R. Academy of Sciences and
Institute of History of Natural Sciences and Engineering, U.S.S.R.
Academy of Sciences.

(Photosynthesis)

SENCHENKOVA, Ye.M.

Origin of theories of photosynthesis and their development up to
the middle of the 19th century. Trudy Inst.ist.est.i tekhn. 32:91-
123 '60. (MIRA 13:10)

(Photosynthesis)

SENCHENKOVA, Ye.M.

History of the problem on the role of water as the source of
oxygen in photosynthesis. Vop.ist.est. i tekhn. no.11:100-104
'61. (MIRA 14:11)

(Photosynthesis)

SENCHENKOVA, Yevgeniya Mikhaylovna; BAZILEVSKAYA, N.A., otv. red.; VYAZEM-
TSEVA, V.N., red. izd-va; LAUT, V.G., tekhn. red.

[K.A.Timiriazev and the science of photosynthesis] K.A.Timiriazev i
uchenie o fotosintezе. Moskva, Izd-vo Akad. nauk SSSR, 1961. 179 p.
(MIRA 14:7)

(Timiriazev, Kliment Arkad'evich, 1843-1920) (Photosynthesis)

SENCHENKOVA, Ye.M.; FILATOVA, A.N.

V.M.Dement'ev as K.A.Timiriazev's pupil. Trudy Inst. ist. est. i
tekh. 36:244-258 '61. (MIRA 14:9)
(Dement'ev, Vladimir Mikhailovich, 1853-1880)
(Timiriazev, Kliment Arkad'evich, 1843-1920)

SENCHENKOVA, Ye.M.

Concise historical outline of the problem of genetic relation
between chlorophyll and hemoglobin. Trudy Inst.ist.est.1 tekhn.
40:157-197 '62. (MIRA 15:9)
(Hemoglobin) (~~Chlorophyll~~)

SENCHENKOVA, Ye.M., kand.biolog.nauk

The pearl of Taurida; 150th anniversary of the founding of the
Nikita State Botanical Garden. Priroda 51 no.12:78-82 D '62.
(MIRA 15:12)

1. Institut istorii yesterstvovaniya i tekhniki AN SSSR, Moskva.
(Nikita (Crimea)—Botanical gardens)

AYRUNI, Arsen Tigranovich, kand. tekhn. nauk; ALEKSEYEV, Viktor Borisovich;
BURSHTEYN, Mark Aleksandrovidh; GEYMAN, Leonid Mikhaylovich;
GRABILIN, Yuriy Nikolayevich; KILIMOV, Sergey Leonidovich; SOSNOV,
Vladimir Dmitriyevich; SENCHEVA, Valentina Ivanovna; SUYETIN,
Georgiy Georgiyevich; FEYGIN, Lev Mikhaylovich; SHEVCHENKO, Vadim
Dmitriyevich; KAZAKOV, B.Ye., otv. red. toma; TAYTS, T.L., red.;
OSVAL'D, E.Ya., red. izd-va; MINSKER, L.I., tekhn. red.

[The coal industry of capitalist countries] Ugol'naia promyshlennost' kapitalisticheskikh stran. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.2.[Technology, mechanization, and organization of development workings] Tekhnologiya, mekhanizatsiya i organizatsiya rabot pri provedenii podgotovitel'nykh gornykh vy-rabotok. Otv. red. toma: B.E.Kazakov, V.D.Sosnov, G.G.Suetin. 1962. 351 p. (MIRA 16:2)

1. Moscow. TSentral'nyy institut tekhnicheskoy informatsii ugol'noi promyshlennosti. 2. TSentral'nyy institut tekhnicheskoy informatsii ugol'noy promyshlennosti, Moscow (for Suetin, Sencheva).
3. Gosudarstvennyy proyektnyy institut po avtomatizatsii ugol'noy promyshlennosti (for Feygin). 4. Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (for Sosnov).
5. Vsesoyuznyy tsentral'nyy proyektnyy institut po proyektirovaniyu shakhtnogo stroitel'stva kamennougol'noy promyshlennosti (for Burshteyn, Shevchenko). 6. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo po ugol'noy promyshlennosti (for Geyman).

(Continued on next card)

SENCHIKIN, V.M., vetvrach; STRASHKO, P.F., vetvrach.; ROGOZHINA, V.L.,
laborant

Zinc phosphide poisoning of animals. Veterinariia 36 no.6:
51-55 Je '59. (MIRA 12:10)
(Zinc phosphide--Toxicology)

16(1)

AUTHOR:

Senchikhina, I.N.

SOV/41-11-2-7/17

TITLE:

Eigenfunction Expansions of a Difference Operator With Operator Coefficients

PERIODICAL:

Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 2, pp 183-191 (USSR)

ABSTRACT:

Developing the ideas of Kreyn [Ref 2] and Yu.M.Berezanskiy [Ref 1] the author constructs a generalized Hilbert space in which the difference operators

$$L(u_j) = a_{j-1}u_{j-1} + b_j u_j + a_j u_{j+1} \quad (j=0,1,2,\dots)$$

are considered, where u_j is a sequence of vectors of the considered Hilbert space, while a_j and b_j are bounded operators in this space. For $L(u_j)$ the author obtains an expansion in terms of eigenfunctions. The author thanks Yu.M.Berezanskiy. There are 2 Soviet references.

SUBMITTED: July 14, 1958

Card 1/1

SHCHERBA, Grigoriy Nikiforovich, prof., doktor geol.-mineral. nauk,
zasluzhennyy deyatel'nauki KazSSR; GUKOVA, Vera Dmitriyevna;
KUDRYASHOV, Arkadiy Vasil'yevich; SENCHILO, Nikolay
Panteleyevich; NESTEROVA, I.I., red.

[Greisens, vein quartz, and potassic feldspar in molybdenum-
tungsten deposits of Kazakhstan.] Greizeny, zhil'nyi kvarts i
kalishpaty molibdeno-vol'framovykh mestorozhdenii Kazakhstana.
Alma-Ata, 1964. 306 p. (Akademiya nauk Kazakhskoi SSR. Institut
geologicheskikh nauk. Trudy, vol.8) (MIRA 17:6)

SENCHELLO-YAVERBAUM, Z. T.

Senchillo-Yaveroaum, Z. T. "On errors in diagnosis and treatment of arterial-venal aneurism of the deep his artery," Sbornik nauch. rabot evakogospitaley i Kafedry obshchey chirurgii (Irkut. obl. otd. zdravookhraneniya. Irkut. gos. med. in-t) (Irkutsk), 1948, p. 123-26

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

DOBYCHIN, B.D., professor; SHIPACHEV, V.G., professor; SINKEVICH, N.A., professor; KOLCHENOGOV, P.D., dotsent; SENCHILLO, Z.T., dotsent; KAVRICHKOVA, R.M., assistant; STANKEVICH, M.V., assistant; FOMINA, V.M., assistant; RUMYANTSEVA, V.I., assistant.

In memory of K.P.Sapozhkov. Khirurgiya no.8:86 Ag '53. (MIRA 6:9)
(Sapozhkov, Konstantin Petrovich, 1874-1952)

SENCHILL~~Y~~-YAYERBAUM, Zinaida Tikhonovna

(Irkutsk State Medical Inst), Academic degree of Doctor of Medical Sciences, based on her defense, 4 February 1955, in the Council of the Leningrad Sanitary-Hygienic Medical Inst of her dissertation: "Diseases of the post-operative stomach."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 18, 10 Sep 55, Byulleten' MVO SSR, No. 17, Sep 56, Moscow, pp 9-16, Uncl. JPRS/NY-435

SENCHILLO-YAVERBAUM, Z. T.

SENCHILLO-YAVERBAUM, Z.T., doktor meditsinskikh nauk

Vesico-sigmo-anastomosis and suturing of urethrovesical fistula in total epispadias. Urologiia 22 no.3:37-39 My-Je '57. (MIRA 10:8)

1. Iz gosspital'noy khirurgicheskoy kliniki (zav. - dots. Z.T. Senchillo-Yaverbaum) Irutskogo meditsinskogo instituta (dir. - dotsent K.K.Akmalayev)

(EPISPADIAS, surg.

vesico-sigmo-anastomosis & repair of urethrovesical fistula in child)

(BLADDER, surg.

vesico-sigmo-anastomosis

substitute bladder from sigmoid & repair of urethrovesical fistula in epispadias in child)

(COLON, surg.
(same)

SENCILLO-YAVERBAUM, Z.T., prof. (Irkutsk, ul. Zhelybova, d.3, kv.50)

Comments on some details in the technic of gastrectomy. Nov.khir.
arkh. no.6:82-85 N-D '58. (MIRA 12:3)

1. Kafedra gospi'tal'noy khirurgii (zav. - prof. Z.T. Sencillo-
Yaverbaum) Irkutskogo meditsinskogo instituta.
(STOMACH--SURGERY)

SENGHILL-YAVERBAUM, Z.T., prof. (Irkutsk, ul. Zhelyabova, d.3, kv.50)

~~Diseases of the stomach following gastric surgery. [with summary
in English]~~ Vest.khir. 80 no.4:3-13 Ap'58 (MIRA 11:5)

1. Irkutskiy meditsinskiy institut.
(STOMACH, dis.
surg., indic. & statist. (Rus))

SENGHILLO-YAVERBAUM, Z.T., prof.

Benign adenoma of the pancreas with hyperinsulinism. Sov. med. 23
no.5:83-84 My '59. (MIRA 12:7)

1. Iz gospi'tal'noy khirurgicheskoy kliniki (zav. - prof. Z. T. Senghillo-Yav~~er~~baum) Irkutskogo meditsinskogo instituta.
(PANCREAS, neoplasms
adenoma, benign, with hyperinsulinism (Rus))
(HYPERINSULINISM, etiol. & pathogen.
adenoma, benign, of pancreas (Rus))

SENCILLO-YAVERBAUM, Zinaida Tikhonovna

[Problems in the surgical treatment of peptic ulcer] Voprosy
khirurgicheskogo lecheniia iazvennoi bolezni. Moskva, Medgiz,
1960. 214 p. (MIRA 13:8)

(PEPTIC ULCER)

SENCHILLO-YAVERBAUM, Z.T., professor

New variant of radical surgery for cyst of the pancreas. Vest.
khir. no.6:102-103 '62. (MIRA 15:11)

1. Iz gospi'tal'noy khirurgicheskoy kliniki (zav. - prof. Z.T.
Senchillo-Yaverbaum) Irkutskogo meditsinskogo instituta.
(PANCREATIC CYSTS)

SENCHILLO-YAVERBAUM, Z.T., prof. (Irkutsk, ul. Zhelyabova, d.3, kv.58)

Surgical treatment of pancreatitis. Vest. Khir. 91 no.10:107-109
0 '63. (MIRA 17:7)

1. Iz gosital'noy khirurgicheskoy kliniki (zav. - prof. Z.T.
Senchillo-Yaverbaum) Irkutskogo meditsinskogo instituta (rektor
prof. A.I. Nikitin).

SOSNOVIK, Il'ya Yakovlevich; LUK'YANOV, V.S., red.; SENCHILO, K.K., tekhn.
red.

[First aid in acute poisoning from industrial toxins] Pervaia pomoshch' pri ostrykh otravleniakh promyshlennymi iadami. Moskva, Gos. izd-vo med. lit-ry Medgiz. 1960. 49 p. (MIRA 14:8)
(INDUSTRIAL TOXICOLOGY) (FIRST AID IN ILLNESS AND INJURY)

BODYAZHINA, Vera Il'ichna; PORAY-KOSHITS, K.V., red.; SENCHILO, K.K.,
tekhn. red.

[Obstetrics textbook] Uchebnik akusherstva. 2. izd. Moskva,
Medgiz, 1961. 461 p. (MIRA 15:3)
(OBSTETRICS)

SENCHILO, N.P.

Metallic and nonmetallic quartz in rare metal stockworks. Izv.
AN Kazakh. SSR. Ser. geol. no.2:27-39 '60. (MIRA 13:8)
(Kazakhstan—Quartz)

SENCHILO, N.P.

Structures and texture of the vein quartz in rare metal
stockworks in central Kazakhstan. Izv.AN Kazakh.SSR Ser.geol.
no.4:58-69 '59. (MIRA 15:4)
(Kazakhstan--Quartz)

SHCHERBA, G.N.; YERSHOV, B.V.; IVANOV, A.I.; KUDRYASHOV, A.V.;
SENCHILO, N.P.

Possible Mesozoic age of the Khorgos intrusive complex in the
Dzungarian Ala-Tau. Trudy Inst.geol.nauk AN Kazakh.SSR 6:226-236
'62. (MIRA 16:6)

(Dzungarian Ala-Tau—Geological time)

~~SENCHILO, P.~~, zamestitel' komandira po politicheskoy chasti

Business ability of a communist. Grazhd. av. 19 no.11:4
N '62. (MIRA 16:1)

(Communist Party of the Soviet Union—Party work)
(Airports—Management)

SENCHILO, Ye.A., nauchnyy sotrudnik

Transfusion of blood enriched with oxygen in pulmonary tuberculosis.
Akt.vop.perel.krovi no.4:126 '55. (MIRA 13:1)

1. Khirurgicheskaya klinika Leningradskogo instituta perelivaniya
krovi (nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR, prof.
A.N. Filatov) i otdeleniya Leningradskogo tuberkuleznogo instituta
im. Shternberga.
(BLOOD--TRANSFUSION) (TUBERCULOSIS)

SENCHILO, Ye. A.

SENCHILO, Ye. A.: "The hemotherapy of ulcerous disease." Naval Medical Academy. Leningrad, 1956
(Dissertation for the degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis', No 36, 1956, Moscow.

SENCHILO, Ye.A. (Leningrad)

Data from clinical tests of the sterilized "F" serum in the treatment of ulcers. Klin.med. 34 no.5:90-91 My '56. (MLRA 9:10)

1. Iz khirurgicheskoy kliniki Leningradskogo ordena trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi (dir. A.Ye.Kiselev, nauchnyy rukovoditel' - laureat Stalinskoy premii prof. A.N.Filatov)

(SERUM THERAPY)

(PEPTIC ULCER)

PETROV, I.R., prof. (Leningrad, ul. Lebedeva, d. 10-a, kv.18)
SENCHILO, Ye.A., kand.med.nauk

A synthetic plasma substitute syncol and its use in clinical practice
[with summary in English] Vest.khir. 81 no.8:44-50 Ag '58
(MIRA 11:9)

1. Iz eksperimental'noy laboratorii (zav. - prof. I.R. Petrov)
i khirurgicheskoy kliniki (zav. - prof. A.N. Filatov) Leningradskogo
ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta
perelivaniya krovi. 2. Chlen-korrespondent AMN SSSR (for Petrov)
(DEXTRAN, ther. use
indic. (Rus))

FILATOV, A.N., prof. (Leningrad, ul.Nekrasova, d.60, kv.131); SENCHILO, Ye.A.,
kand.med.nauk

Late results of vagotomy in peptic ulcer of the stomach and
duodenum. Vest.khir. 82 no.4:50-55 Ap '59. (MIRA 12:6)

1. Iz khirurgicheskoy kliniki (zav. - prof.A.N.Filatov) Lenin-
gradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'-
skogo instituta peralivaniya krovi. 2. Chlen-korrespondent AMN
SSSR (for Filatov).

(VAGUS NERVE--SURGERY) (PEPTIC ULCER)

SENCHILO, Ye.A., kand.med.nauk (Leningrad, ul. Rakova, d.16, kv.68);
PETROV, N.V., dotsent

Some data on the clinical effectiveness of polyvinal. Vest.
khir. no.8:79-83 '61. (MIRA 15:3)

1. Iz laboratorii kukhikh preparatov krovi (zav. - prof. L.G. Bogomolova), khirurgicheskoy kliniki (zav. - prof. A.N. Filatov) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi i kliniki obshchey khirurgii 1-go Leningradskogo meditsinskogo instituta im. I.P. Pavlova.
(BLOOD PLASMA SUBSTITUTES)

TEODOROVICH, V. I.; SENCHILO, Ye. A.; SERIKOVA, A. Z.

Use of thrombocyte suspensions for therapeutic purposes in
Werlhof's disease. Probl. gemat. i perel. krovi no.8:20-27
'62. (MIRA 15:7)

1. Iz Leningradskogo ordena Trudovogo Krasnogo Znameni instituta
perelivaniya krovi (dir. - dotsent A. D. Belyakov, nauchnyy
rukovoditel' - chlen-korrespondent AMN SSSR prof. A. N. Filatov)

(PURPURA(PATHOLOGY)) (BLOOD PLATELETS)

SENCHILO, Ye.A.

Transfusion of blood stored in plastic bags. Probl. gemat. i
perel. Krovi 8 no.9:57-58 S '63. (MIRA 17:9)

1. Iz khirurgicheskoy kliniki (zav. - chlen-korrespondent AMN
SSSR prof. A.N.Filatov) Leningradskogo ordena Trudovogo Krasnogo
Znameni instituta perelivaniya krovi (dir. - dotsent A.D. Belyakov).

KHLEBNIKOVA, I.M.; SENCHILO, Ye.A., kand.med.nauk

Effect of polyvinol on the liver function in surgical patients.
Vest. khir. 93 no.9:40-46 S '64. (MIRA 18:4)

1. Iz laboratorii polimerov (zav. - kand. biolog. nauk Ye.A. Chaplygina) i khirurgicheskoy kliniki (nauchnyy rukovoditel' - prof. A.N.Filatov) Leningradskogo nauchno-issledovatel'skogo instituta perelivaniya krovi.

CHUYKO, N.M.; GALITSKIY, Yu.P.; RUTKOVSKIY, V.B.; SAMOYLENKO, E.D.; SENCHILOV,
E.S.

Gases in acid electric steel. Nauch. trudy DMI no.51:64-76 '63.
(MIRA 17:10)

1. Dnepropetrovskiy metallurgicheskiy institut i Dneprodzerzhinskiy
vagonostroitel'nyy zavod imeni gazety "Pravda".

L 00640-67 EWT(m)/T DS

ACC NR: AP6005321

SOURCE CODE: UR/0413/66/000/001/0056/0056

AUTHORS: Potapov, M. M.; Senchin, N. A.

ORG: none

TITLE: A controlled vacuum discharge. Class 21, No. 177526

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 56

TOPIC TAGS: electric discharge, discharge chamber, spark gap, spark ignition, vacuum arc

ABSTRACT: This Author Certificate presents a controlled vacuum discharge. The design reduces the erosion of the electrodes with multiple passage through the discharge of large pulse currents and reduces the inductance of the discharge. The discharge is made in the form of several discharge vacuum gaps, connected in parallel and arranged in a single hermetically sealed housing. The gaps are triggered by a single ignition device, and the discharges are generated by a common low potential electrode for all the gaps and by several (based on the number of gaps) high potential electrodes positioned opposite to the low potential electrode. The number of the latter electrodes corresponds to the number of gaps. The high potential electrodes are fastened to a stand-off insulator parallel to the low potential electrode.

SUB CODE: 21/ SUBM DATE: 25Apr64

Card 1/1 fv

UDC: 621.313.17

BARKOV, Ivan Yakovlevich; SENCHISHCHEV, N.A., red.; KOLBICHEV, V.I.,
tekhn.red.

[Fundamentals of the arithmetic of real numbers] Osnovaniia
arifmetiki deistvitel'nykh chisel. Cheliabinsk, Cheliabinskoe
knizhnoe izd-vo, 1960. 254 p. (MIRA 14:1)
(Numbers, Theory of) (Aggregates)

SENCHISHCHEV, S.A., inzhener

Standardization, normalization, and unification in machine tool construction. Standartizatsiia no.5:17-22 S-0'55. (MLRA 8:11)

1. Eksperimental'nyy Nauchno-issledovatel'skiy institut metallo-rezhushchikh stankov
(Machine tools--Standards)

AUTHOR: Senchishchev, S.A. 28-6-20/40

TITLE: Revision of the "GOST" for Hexagonal Socket Capscrews
(K peresmotru GOSTa na vinty s vnutrennim shestigrannikom)

PERIODICAL: Standartizatsiya, 1957, # 6, pp 56 - 59 (USSR)

ABSTRACT: This article concerns "ГОСТ 5993-51", for hexagonal socket capscrews used in the machine tool and tool industry of USSR. About 12 million of these screws were produced in 1956 and a yearly production of 24 million is planned by 1960.

The Moscow Plant of Machine Tool Normal's (Moskovskiy Zavod Stanochnykh Normaley) has produced them since 1947 by cold heading. The author thinks that the experience shows that the "GOST" -standard must be revised so as to enable production of screws from standard wire and that an optimum shape of the hexagonal socket bottom should be found that would require the least punching pressure. An illustrating calculation is given using an equation by Genki and Mor (the names are transliterated). Foreign calculations by Hoffmann and Siebel and by several Soviet technicians are mentioned.

There are 3 diagrams, 2 graphs and 1 table.

ASSOCIATION: ENIMS

AVAILABLE: Library of Congress

Card 1/1 1. Industry-USSR 2. Screw-Cap-Socket head-Standards

SOV/137-58-9-20188

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 295 (USSR)

AUTHOR: Senchishchev, S.A.

TITLE: Determination of the Modulus of Elasticity of the Hard VK15 Alloy. (For the Calculation of the Stresses and Tightness of Fit in Dies With Inserts of the Hard Alloy for the Cold Upsetting of Screws) [Opredeleniye modulya uprugosti tverdogo splava VK15. (K raschetu napryazheniy i natyagov v matri-tsakh so vstavkami iz tverdogo splava dlya kholodnoy vysadki vintov)]

PERIODICAL: Vestn. tekhn. inform. Eksperim. n.-i. in-t metallorazhstan-kov, 1957, Nr 8-9, pp 44-53

ABSTRACT: A method is set forth for the determination of the modulus of elasticity (E) of the hard VK15 alloy and the calculation of stresses and strains in the dies (D) with inserts of this alloy for the cold upsetting of screw heads. For the correct selection of the tightness of fit between the body of the D and the insert before pressing, it is proposed to use the Lamé method for the calculation of the stresses. In this case the D is

Card 1/2 regarded as a composite cylinder and the Lamé method is

SOV/137-58-9-20188

Determination of the Modulus of Elasticity of the Hard VK15 Alloy. (cont.)

applied for the determination of the radial and tangential stresses in the walls of the D and the insert upon their mutual pressing with the corresponding strain. However for the solution of the given problem it is necessary to know the magnitudes of E and the Poisson ratio for both the material of D (30KhGSA-grade steel) and the hard VK15 alloy from which the insert is prepared. Since it is impossible to determine the E of the hard alloy by the ordinary method because specimens cannot be prepared from it, the determination of this characteristic of the alloy was carried out by means of comparison of the outer and inner diameters of the insert and the D before press-fitting and in the press-fitted state, respectively. The measurement of the outer diameter of the insert after it had been press-fitted on a 30-ton hydraulic press was conducted with the aid of precisely measured rods of U8A-grade steel which were inserted in diametrically opposed openings drilled through the bushing of the die. The methods and examples of the calculation of E based on the values of the deformation of the bushing and the insert are adduced. To calculate the stresses the Poisson ratio was assumed to be equal to 0.3 for the VK15 alloy. The comparison of the experimental and the calculated data verified the correctness of the calculation of E of the hard alloy and substantiated the selection of the value for the Poisson ratio.

1. Steel---Elasticity 2. Stress analysis
Card 2/2

L.G.

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9(6)

SOV/112-59-3-5268

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 3, p 137 (USSR)

AUTHOR: Antonova, I. A., and Senchuro, I. N.

TITLE: Automatic Circuit for Measuring Weak Currents
(Avtomaticheskaya skhema dlya izmereniya slabykh tokov)

PERIODICAL: V sb.: Issled. v obl. dozimetrii ioniziruyushchikh izlucheny. M.,
AN SSSR, 1957, pp 176-179

ABSTRACT: An automatic single-stage circuit for measuring a weak current of an ionization chamber is described; the circuit is designed with an EM-3 electrometer tube. The weak current is measured by the discharge time of the input capacitance of the circuit. To ensure stability, the circuit is balanced with respect to both heating-current and tube-emission fluctuations. The best balancing of the EM-3 tube was achieved by supplying the filament and the anode separately. The lower limit of the measured current is determined by the tube grid current 6×10^{-15} amp. The upper limit is set by the "dead time"

Card 1/2

SOV/112-59-3-5268

Automatic Circuit for Measuring Weak Currents

of the circuit which is equal to $(7.6 \pm 0.5) \times 10^{-2}$ sec. With an input-circuit capacitance of 11 μf and with a voltage scale span of 0.9 v, the upper limit of the measured currents is 3×10^{-11} amp.

N.G.Z.

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